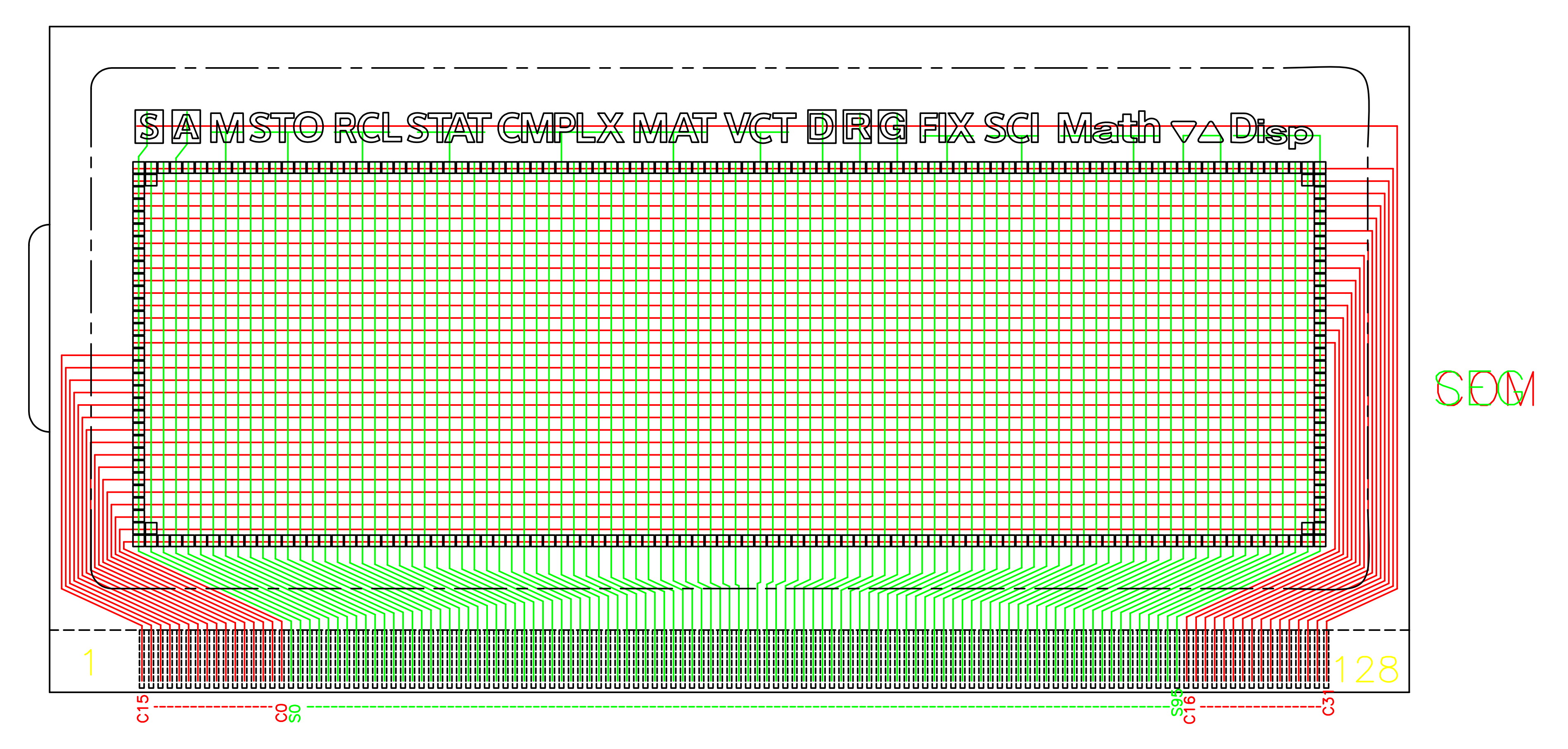
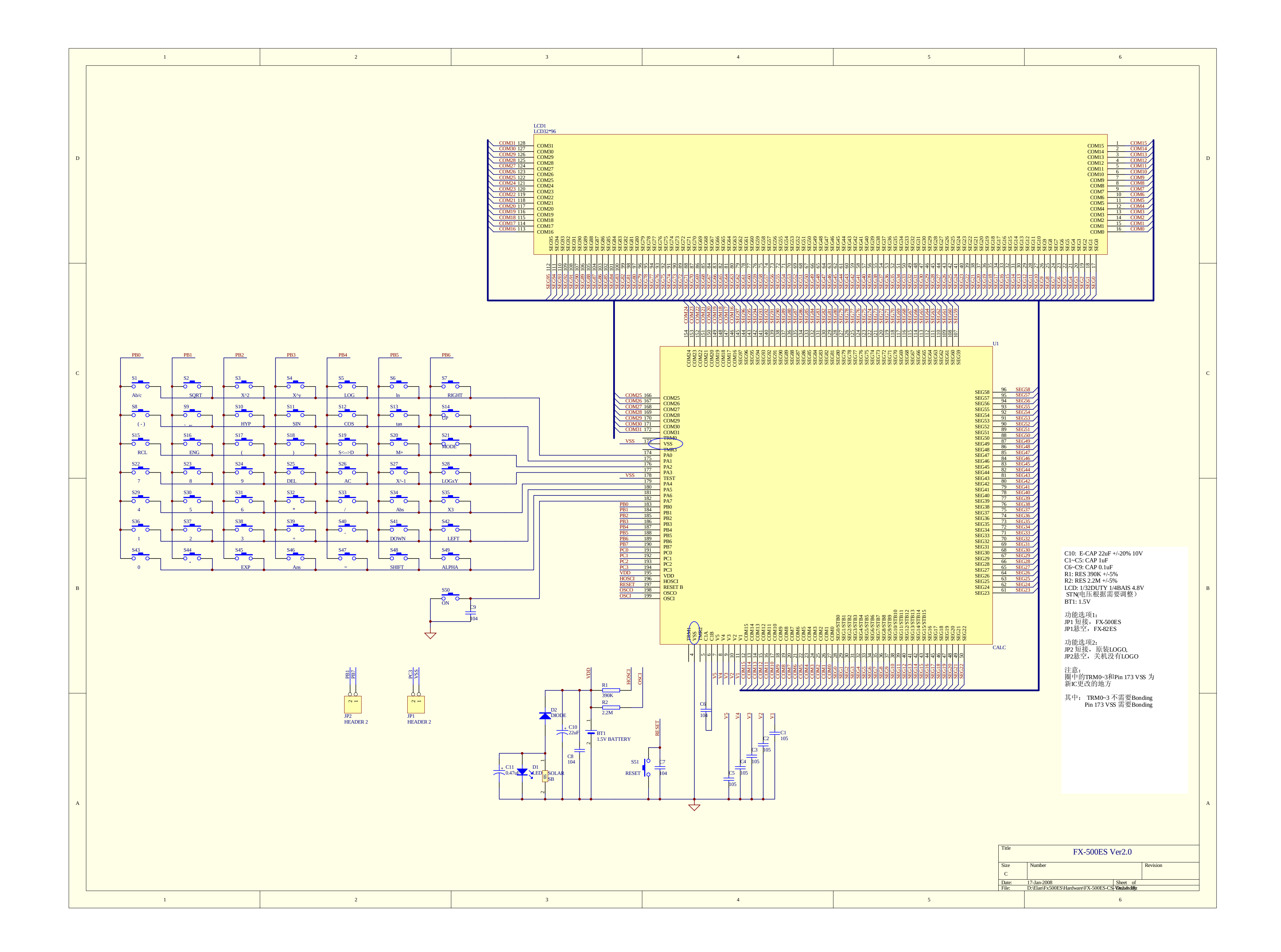


此页只供逻辑走线用，不作图案效果

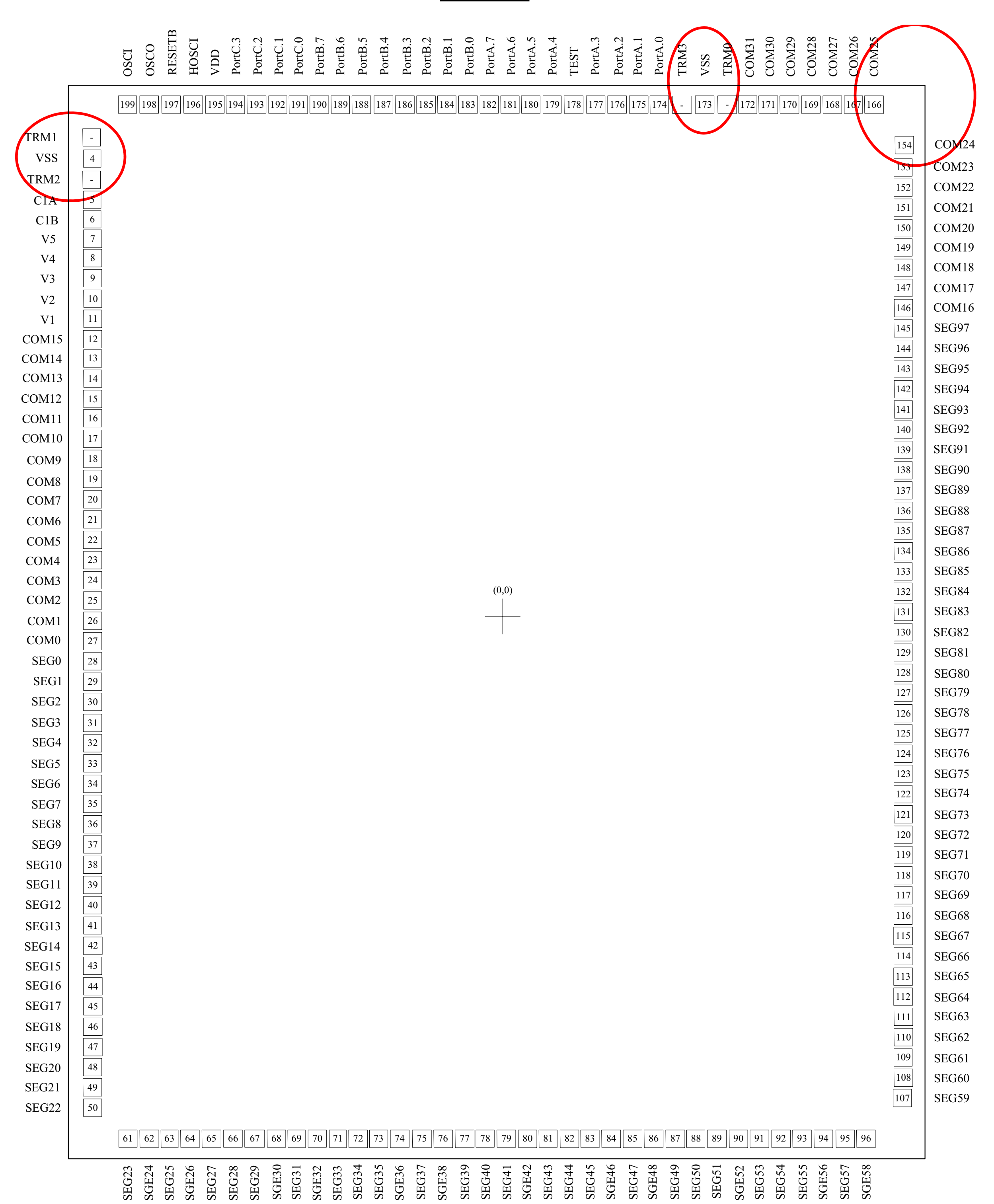
1/32 DUTY, 1/4 BIAS, 4.8 V

PITCH 0.48 0.24 + 0.24



LCD1
LCD32*96
U1
CALC
PB0 PB1 PB2 PB3 PB4 PB5 PB6
Ab/c SQRT X^2 X^y LOG ln RIGHT
(-) HYP SIN COS tan UP
RCL ENG ( ) S<-->D M+ MODE
7 8 9 DEL AC X^-1 LOGxY
4 5 6 * / Abs X3
1 2 3 + - DOWN LEFT
0 . EXP Ans = SHIFT ALPHA
S50
ON
JP2
HEADER 2
JP1
HEADER 2
R1
390K
R2
2.2M
D2
DIODE
C10
22uF
BT1
1.5V BATTERY
D1
LED
SOLAR
SB
S51
RESET
C10: E-CAP 22uF +/-20% 10V
C1~C5: CAP 1uF
C6~C9: CAP 0.1uF
R1: RES 390K +/-5%
R2: RES 2.2M +/-5%
LCD: 1/32DUTY 1/4BAIS 4.8V
STN(电压根据需要调整）
BT1: 1.5V
功能选项1：
JP1 短接，FX-500ES
JP1悬空，FX-82ES
功能选项2：
JP2 短接，原装LOGO,
JP2悬空，关机没有LOGO
注意：
圈中的TRM0~3和Pin 173 VSS 为
新IC更改的地方
其中： TRM0~3 不需要Bonding
Pin 173 VSS 需要Bonding
Title
FX-500ES Ver2.0
Size
C
Number
Revision
Date: 17-Jan-2008
Sheet of
File: D:\Elan\Fx500ES\Hardware\FX-500ES-CS-
Drawn By:

附錄二



OSCI
OSCO
RESETB
HOSCI
VDD
PortC.3
PortC.2
PortC.1
PortC.0
PortB.7
PortB.6
PortB.5
PortB.4
PortB.3
PortB.2
PortB.1
PortB.0
PortA.7
PortA.6
PortA.5
PortA.4
TEST
PortA.3
PortA.2
PortA.1
PortA.0
TRM3
VSS
TRM0
COM31
COM30
COM29
COM28
COM27
COM26
COM25
199 198 197 196 195 194 193 192 191 190 189 188 187 186 185 184 183 182 181 180 179 178 177 176 175 174 - 173 - 172 171 170 169 168 167 166
TRM1 -
VSS 4
TRM2 -
C1A 5
C1B 6
V5 7
V4 8
V3 9
V2 10
V1 11
COM15 12
COM14 13
COM13 14
COM12 15
COM11 16
COM10 17
COM9 18
COM8 19
COM7 20
COM6 21
COM5 22
COM4 23
COM3 24
COM2 25
COM1 26
COM0 27
SEG0 28
SEG1 29
SEG2 30
SEG3 31
SEG4 32
SEG5 33
SEG6 34
SEG7 35
SEG8 36
SEG9 37
SEG10 38
SEG11 39
SEG12 40
SEG13 41
SEG14 42
SEG15 43
SEG16 44
SEG17 45
SEG18 46
SEG19 47
SEG20 48
SEG21 49
SEG22 50
154 COM24
153 COM23
152 COM22
151 COM21
150 COM20
149 COM19
148 COM18
147 COM17
146 COM16
145 SEG97
144 SEG96
143 SEG95
142 SEG94
141 SEG93
140 SEG92
139 SEG91
138 SEG90
137 SEG89
136 SEG88
135 SEG87
134 SEG86
133 SEG85
132 SEG84
131 SEG83
130 SEG82
129 SEG81
128 SEG80
127 SEG79
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123 SEG75
122 SEG74
121 SEG73
120 SEG72
119 SEG71
118 SEG70
117 SEG69
116 SEG68
115 SEG67
114 SEG66
113 SEG65
112 SEG64
111 SEG63
110 SEG62
109 SEG61
108 SEG60
107 SEG59
(0,0)
61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96
SEG23
SEG24
SGE25
SGE26
SGE27
SEG28
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SGE48
SGE49
SGE50
SGE51
SGE52
SGE53
SGE54
SGE55
SGE56
SGE57
SGE58

Chip Size: 3930 * 5180 um^2

Pin NO.	Symbol	X	Y	Pin NO.	Symbol	X	Y
1	NC	-	-	41	SEG13/Strobe13	-1852.5	-1406.2
2	NC	-	-	42	SEG14/Strobe14	-1852.5	-1501.2
3	NC	-	-	43	SEG15/Strobe15	-1852.5	-1596.2
4	VSS	-1852.5	2306	44	SEG16	-1852.5	-1706.2
-	TRM2	-1851.8	2195.8	45	SEG17	-1852.5	-1816.25
5	C1A	-1852.5	2100.8	46	SEG18	-1852.5	-1926.3
6	C1B	-1852.5	1990.8	47	SEG19	-1852.5	-2036.3
7	V5	-1852.5	1882.8	48	SEG20	-1852.5	-2146.35
8	V4	-1852.5	1774.8	49	SEG21	-1852.5	-2258.4
9	V3	-1852.5	1666.8	50	SEG22	-1852.5	-2366.4
10	V2	-1852.5	1558.8	51	NC	-	-
11	V1	-1852.5	1453.8	52	NC	-	-
12	COM15	-1852.5	1348.8	53	NC	-	-
13	COM14	-1852.5	1253.8	54	NC	-	-
14	COM13	-1852.5	1158.8	55	NC	-	-
15	COM12	-1852.5	1063.8	56	NC	-	-
16	COM11	-1852.5	968.8	57	NC	-	-
17	COM10	-1852.5	873.8	58	NC	-	-
18	COM9	-1852.5	778.8	59	NC	-	-
19	COM8	-1852.5	683.8	60	NC	-	-
20	COM7	-1852.5	588.8	61	SEG23	-1725.5	-2477.5
21	COM6	-1852.5	493.8	62	SEG24	-1622.5	-2477.5
22	COM5	-1852.5	398.8	63	SEG25	-1517.5	-2477.5
23	COM4	-1852.5	303.8	64	SEG26	-1412.5	-2477.5
24	COM3	-1852.5	208.8	65	SEG27	-1309.5	-2477.5
25	COM2	-1852.5	113.8	66	SEG28	-1207.5	-2477.5
26	COM1	-1852.5	18.8	67	SEG29	-1112.5	-2477.5
27	COM0	-1852.5	-76.2	68	SEG30	-1017.5	-2477.5
28	SEG0/Strobe0	-1852.5	-171.2	69	SEG31	-922.5	-2477.5
29	SEG1/Strobe1	-1852.5	-266.2	70	SEG32	-827.5	-2477.5
30	SEG2/Strobe2	-1852.5	-361.2	71	SEG33	-732.5	-2477.5
31	SEG3/Strobe3	-1852.5	-456.2	72	SEG34	-637.5	-2477.5
32	SEG4/Strobe4	-1852.5	-551.2	73	SEG35	-542.5	-2477.5
33	SEG5/Strobe5	-1852.5	-646.2	74	SEG36	-447.5	-2477.5
34	SEG6/Strobe6	-1852.5	-741.2	75	SEG37	-352.5	-2477.5
35	SEG7/Strobe7	-1852.5	-836.2	76	SEG38	-257.5	-2477.5
36	SEG8/Strobe8	-1852.5	-931.2	77	SEG39	-162.5	-2477.5
37	SEG9/Strobe9	-1852.5	-1026.2	78	SEG40	-67.5	-2477.5
38	SEG10/Strobe10	-1852.5	-1121.2	79	SEG41	27.5	-2477.5
39	SEG11/Strobe11	-1852.5	-1216.2	80	SEG42	122.5	-2477.5
40	SEG12/Strobe12	-1852.5	-1311.2	-	-	-	-

Pin NO.	Symbol	X	Y
81	SEG43	217.5	-2477.5
82	SEG44	312.5	-2477.5
83	SEG45	407.5	-2477.5
84	SEG46	502.5	-2477.5
85	SEG47	597.5	-2477.5
86	SEG48	692.5	-2477.5
87	SEG49	787.5	-2477.5
88	SEG50	882.5	-2477.5
89	SEG51	977.5	-2477.5
90	SEG52	1072.5	-2477.5
91	SEG53	1167.5	-2477.5
92	SEG54	1272.5	-2477.5
93	SEG55	1377.5	-2477.5
94	SEG56	1482.5	-2477.5
95	SEG57	1594.85	-2477.5
96	SEG58	1704.9	-2477.5
97	NC	-	-
98	NC	-	-
99	NC	-	-
100	NC	-	-
101	NC	-	-
102	NC	-	-
103	NC	-	-
104	NC	-	-
105	NC	-	-
106	NC	-	-
107	SEG59	1852.5	-2380.3
108	SEG60	1852.5	-2276.3
109	SEG61	1852.5	-2173.3
110	SEG62	1852.5	-2070.3
111	SEG63	1852.5	-1967.3
112	SEG64	1852.5	-1863.3
113	SEG65	1852.5	-1761.3
114	SEG66	1852.5	-1659.3
115	SEG67	1852.5	-1555.3
116	SEG68	1852.5	-1460.3
117	SEG69	1852.5	-1365.3
118	SEG70	1852.5	-1270.3
119	SEG71	1852.5	-1175.3
120	SEG72	1852.5	-1080.3

Pin NO.	Symbol	X	Y
121	SEG73	1852.5	-985.3
122	SEG74	1852.5	-890.3
123	SEG75	1852.5	-795.3
124	SEG76	1852.5	-700.3
125	SEG77	1852.5	-605.3
126	SEG78	1852.5	-510.3
127	SEG79	1852.5	-415.3
128	SEG80	1852.5	-320.3
129	SEG81	1852.5	-225.3
130	SEG82	1852.5	-130.3
131	SEG83	1852.5	-35.3
132	SEG84	1852.5	59.7
133	SEG85	1852.5	154.7
134	SEG86	1852.5	249.7
135	SEG87	1852.5	344.7
136	SEG88	1852.5	439.7
137	SEG89	1852.5	534.7
138	SEG90	1852.5	629.7
139	SEG91	1852.5	724.7
140	SEG92	1852.5	819.7
141	SEG93	1852.5	914.7
142	SEG94	1852.5	1009.7
143	SEG95	1852.5	1104.7
144	SEG96	1852.5	1199.7
145	SEG97	1852.5	1294.7
146	COM16	1852.5	1389.7
147	COM17	1852.5	1484.7
148	COM18	1852.5	1596.1
149	COM19	1852.5	1706.1
150	COM20	1852.5	1816.1
151	COM21	1852.5	1926.1
152	COM22	1852.5	2036.1
153	COM23	1852.5	2146.1
154	COM24	1852.5	2256.1
155	NC	-	-
156	NC	-	-
157	NC	-	-
158	NC	-	-
159	NC	-	-
160	NC	-	-

Pin NO.	Symbol	X	Y	Pin NO.	Symbol	X	Y
161	NC	-	-	185	PortB.2	-332.75	2477.5
162	NC	-	-	186	PortB.3	-427.75	2477.5
163	NC	-	-	187	PortB.4	-522.75	2477.5
164	NC	-	-	188	PortB.5	-617.75	2477.5
165	NC	-	-	189	PortB.6	-712.75	2477.5
166	COM25	1765.65	2477.5	190	PortB.7	-807.75	2477.5
167	COM26	1635.65	2477.5	191	PortC.0	-902.75	2477.5
168	COM27	1530.65	2477.5	192	PortC.1	-1000.75	2477.5
169	COM28	1425.65	2477.5	193	PortC.2	-1098.75	2477.5
170	COM29	1315.65	2477.5	194	PortC.3	-1196.75	2477.5
171	COM30	1215.65	2477.5	195	VDD	-1296.75	2477.5
172	COM31	1115.65	2477.5	196	HOSCI	-1406.75	2477.5
-	TRM0	1022.65	2477.45	197	RESETB	-1516.75	2477.5
173	VSS	912.45	2477.5	198	OSCO	-1626.75	2477.5
-	TRM3	802.25	2477.45	199	OSCI	-1741.75	2477.5
174	PortA.0	712.25	2477.5	-	TRM1	-1851.75	2416.2
175	PortA.1	617.25	2477.5	200	NC	-	-
176	PortA.2	522.25	2477.5	201	NC	-	-
177	PortA.3	427.25	2477.5	202	NC	-	-
178	TEST	332.25	2477.5	203	NC	-	-
179	PortA.4	237.25	2477.5	204	NC	-	-
180	PortA.5	142.25	2477.5	205	NC	-	-
181	PortA.6	47.25	2477.5	206	NC	-	-
182	PortA.7	-47.75	2477.5	207	NC	-	-
183	PortB.0	-142.75	2477.5	208	NC	-	-
184	PortB.1	-237.75	2477.5				

NOTE

1. For PCB layout, the IC substrate must be connected to Vss.

2. TRM0, TRM1, TRM2, TRM3 are not needed to bonding. (for trimming pins)